

ENGINEERING CHANGE NOTICE

DART AEROSPACE LTD

Date:	16.01.05	Job No.:	ADR Yes/No:	N	ADR Date:		ECN #:	16- 501
Product No.:	Apical 350-61 CCK	Created By:	KJ	Approved By:	MP			
Product Name:	Cable Cutters	Checked By:	ASS					

Distribution	Reqd	Resp	* Initial / Date (YY/MM/DD)	Distribution	Reqd	Resp	Initial / Date (YY/MM/DD)
Director of Operations	N			DQA / QA Coord.	Y	PS / ED	
Production Manager / Coord.	Y	MP / MF		QC Coordinator	Y	PD	
Purchasing Manager / Purchasing Coord.	N	LL / CL		Customer Support	Y	SW / LM	
Production Engineering Coord.	Y	DD / JLM		Customer Technical Support	Y	MB / HS	
Production Engineering Coord.	N	DL		Marketing	Y	SL / WR	
Customer Order Processing	N	SL / BG		Sales Support Manager	Y	CP	

Reason for Change:
Incorporated ECN05098

Documents Affected:
Release 646.4000 Rev C, I1350-61 Rev H

50124254 - AIRBUS
50124397
HILLSBORO

See ECN 16-503

need shims
will ship at a later date

IF APPLICABLE: NCR: _____ PAR: _____ CAR: _____ CIR: _____ URF: _____

PAPERWORK UPDATE ☐ PARTS MUST COMPLY ☒ PREVIOUS PARTS SATISFACTORY ☐

#	Quality Assurance Actions	Reqd	Resp	Notes	Complete
1	Notify Previous Customers	N			
2	Notify Eurocopter France	N			
3	Notify Augusta Westland	N			
4	Manufacturing Licensing Agreement Update	N			

#	Engineering Actions	Reqd	Resp	Notes	Complete
5	Required Documents/Drawings/Item ID's Under Review (URF)	N			
6	Update Master Document List (MDL)	N			
7	Update Document Record (DR)	N			
8	Update Product Compatability Matrix	N			
9	Notify TC / FAA of Change (eg. ICA, 8110-3)	N			
10					

#	Document Control Actions	Reqd	Resp	Notes	Complete
11	Move / Update Electronic Files / Design Journal	N			
12	Update Product Specification Files (Bluefiles)	Y	KJ		
13	Update Approved/Preliminary Dwg PDF Files	Y	KJ		
14	Update Product Development Summary (STC applications)	N			
15	Update QSI 021 (TC/FAA STC) and/or STC Approval List	N			
16	Create/Update Parts / STC Database	N			
17	Update / Verify Airworthiness Release Certificate Database	N			
18	Create / Update Change Record Form / Item Card Database	N			
19	Create / Update Packaging Process Plan (PPP)	N			
20	Red Decals required on Packaging Process Plan (PPP)?	N			
21	Update Controlled Supplier Documents (Qpulse) Database	N			
22	Update Grey Project Binder / Electronic Project Folder	Y	KJ		
23	Update D-Part / M-Drawing / DSI / DEO Master Binders	N			
24	Update "Royalty Paid to" attribute (Parts sold under Dart USA STC's)	N			
25					

Description / Action:

Please update BOM and Route

646.4003 - 0 STK, 0 wip
646.4004 - 0 STK, 0 wip.
646.4002 - 2 STK - stay as is. UMF
646.4001 - see attached

16-1-13

ECN Verified & Complete: _____ Date: _____

ENGINEERING CHANGE NOTICE

DART AEROSPACE LTD

Date: 16.01.07	Job No.:	ADR Yes/No: N	ADR Date:	ECN #: 16- 503
Product No.: Apical 350-61 CCK		Created By: KJ	Approved By: <i>[Signature]</i>	
Product Name: Cable Cutters		Checked By: <i>[Signature]</i>		

Distribution	Reqd	Resp	Initial / Date (YY/MM/DD)
Director of Operations	N		
Production Manager / Coord.	Y	MP / MF	
Purchasing Manager / Purchasing Coord.	Y	LL / CL	
Production Engineering Coord.	Y	DD / JLM	
Production Engineering Coord.	N	DL	
Customer Order Processing	N	SL / BG	

Distribution	Reqd	Resp	Initial / Date (YY/MM/DD)
DQA / QA Coord.	Y	PS / ED	
QC Coordinator	Y	PD	
Customer Support	N	SW / LM	
Customer Technical Support	Y	MB / HS	
Marketing	N	SL / WR	
Sales Support Manager	N	CP	

Reason for Change:
 Shim (646.9410) and screws (601.3875) need to be added to 646.4001, 646.4003 & 646.4005 if OEM provisions are installed on aircraft

Documents Affected:
 Release 646.9400 Rev NC

IF APPLICABLE: NCR: _____ PAR: _____ CAR: _____ CIR: _____ URF: _____

PAPERWORK UPDATE ☐ PARTS MUST COMPLY ☒ PREVIOUS PARTS SATISFACTORY ☐

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7	Update Document Record (DR)	N			
8	Update Product Compatability Matrix	N			
9	Notify TC / FAA of Change (eg. ICA, 8110-3)	N			
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12	Update Product Specification Files (Bluefiles)	N			
13	Update Approved/Preliminary Dwg PDF Files	Y	KJ		
14	Update Product Development Summary (STC applications)	N			
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19	Create / Update Packaging Process Plan (PPP)	N			
20	Red Decals required on Packaging Process Plan (PPP)?	N			
21	Update Controlled Supplier Documents (Qpulse) Database	N			
22	Update Grey Project Binder / Electronic Project Folder	N			
23	Update D-Part / M-Drawing / DSI / DEO Master Binders	N			
24	Update "Royalty Paid to" attribute (Parts sold under Dart USA STC's)	N			
25					

Description / Action:

Please update BOM and Route

See ECN 16-501

ECN Verified & Complete: _____ Date: _____

Melanie Fauteux

From: Marc Bellavance
Sent: Thursday, January 14, 2016 9:38 AM
To: Melanie Fauteux; Mario Poulin
Cc: Carrie Pearson; William Monterroza; Shirley Hay; Alain Pelletier; Linda Lacelle; Sian Willems
Subject: RE: 646.9410

Hi Mel/Mario,

I think that the best scenario here is as follows:

1. Sales Account Manager advise our customer that:
 - The kits are shipping as planned.
 - Shipment will be partial as shims are missing from the kits.
 - We intend to complete their kits by providing them with the shims in about 4-5 weeks, once we have them in stock.
 - If they are installing the kits within the next 3-4 weeks and do need the shims, DART Tech Support ON/CA can fully support them with the installation.
2. Ship the kits tomorrow as planned (unless the SAM gets back to us stating we can ship the kits at a later date).

Hope this helps.

Marc

From: Melanie Fauteux
Sent: January-14-16 9:01 AM
To: Mario Poulin <mpoulin@dartaero.com>; Marc Bellavance <mbellavance@dartaero.com>
Cc: Carrie Pearson <cpearson@dartaero.com>; William Monterroza <wmonterroza@dartaero.com>; Shirley Hay <shay@dartaero.com>; Alain Pelletier <apelletier@dartaero.com>; Linda Lacelle <llacelle@dartaero.com>
Subject: 646.9410

Hi,

It's a 4-5 week lead time for the shims. From the previous emails with Alain Madore and Steve, the quickest fix to not lose sales would be to ship without and put a note in sales to advise the customers...what are your thoughts? We have three shipping tomorrow

Thanks

Melanie

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Suspected Unapproved <input type="checkbox"/>		AGAINST DEPARTMENT/PROCESS <div style="display: flex; justify-content: space-between;"> <div> Skid-tube <input type="checkbox"/> Machining <input type="checkbox"/> Thermoforming <input type="checkbox"/> Large Fab <input type="checkbox"/> </div> <div> Cross tube <input type="checkbox"/> Small Fab <input type="checkbox"/> Finishing <input type="checkbox"/> Composite <input type="checkbox"/> </div> <div> Water Jet <input type="checkbox"/> Prod. Eng. Coord. <input type="checkbox"/> Rec/Store/Packaging <input type="checkbox"/> Supplier <input type="checkbox"/> </div> <div> Engineering <input type="checkbox"/> Quality <input type="checkbox"/> Other <input type="checkbox"/> </div> </div>					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					
Root Cause		FAULT CATEGORY							
Environment <input type="checkbox"/>	<input type="checkbox"/> No Re-verification	<input type="checkbox"/> Pressure/Forced	<input type="checkbox"/> Temperature/Cure	<input type="checkbox"/> Power Loss/Surge	<input type="checkbox"/> Positioned Wrong				
Design <input type="checkbox"/>	<input type="checkbox"/> Operator	<input type="checkbox"/> Bending	<input type="checkbox"/> Set-up	<input type="checkbox"/> Folio/Program	<input type="checkbox"/> Outside Dimensions				
Doc/Data <input type="checkbox"/>	<input type="checkbox"/> Offset/Setup	<input type="checkbox"/> Centre Not Concentric	<input type="checkbox"/> BOM/Route	<input type="checkbox"/> Grain	<input type="checkbox"/> Over/Under tolerance				
Equip/Tooling <input type="checkbox"/>	<input type="checkbox"/> Supplier	<input type="checkbox"/> Cracks	<input type="checkbox"/> Broken/Damage/Defect	<input type="checkbox"/> Weld	<input type="checkbox"/> Part Incorrect				
Handling/Pre <input type="checkbox"/>	<input type="checkbox"/> Training	<input type="checkbox"/> Crimp/Kink/Ripple/Wave	<input type="checkbox"/> Inspection Incomplete/Unqualified	<input type="checkbox"/> Wrong Stock Pulled	<input type="checkbox"/> Part Lost/Missing				
Material <input type="checkbox"/>	<input type="checkbox"/> Use for Testing	<input type="checkbox"/> Cuffs	<input type="checkbox"/> Contamination	<input type="checkbox"/> Out of Sequence	<input type="checkbox"/> Part Moved				
Internal Transport <input type="checkbox"/>	<input type="checkbox"/> Poor Information	<input type="checkbox"/> Crushing	<input type="checkbox"/> Countersink	<input type="checkbox"/> Off-set	<input type="checkbox"/> Drawing				
Tribal Knowledge <input type="checkbox"/>	<input type="checkbox"/> Rushing	<input type="checkbox"/> Heat Treat	<input type="checkbox"/> Cut Too Short	<input type="checkbox"/> Misabeled	<input type="checkbox"/> Finish				
LOA <input type="checkbox"/>	<input type="checkbox"/> Product Improvement	<input type="checkbox"/> Wave/Twist in Tube	<input type="checkbox"/> Instructions Incomplete/Unclear	<input type="checkbox"/> Fit/Function	<input type="checkbox"/> Misread				
Substation <input type="checkbox"/>	<input type="checkbox"/> Process Improvement	<input type="checkbox"/> Marks/Chatter	<input type="checkbox"/> Drill Holes	<input type="checkbox"/> Misaligned/off center	<input type="checkbox"/> Turning Sequence				
Past Expiry Date <input type="checkbox"/>	<input type="checkbox"/> Manufacturing Process	OTHER : _____							
Misidentified <input type="checkbox"/>	<input type="checkbox"/> Past Due								

Work In Process Value

Thursday, January 14, 2016

Page 1 of 1

Work Order ID	Start Date	Item ID	Customer ID	Start Qty	Matl Issue Date	Status Code	Lab Hrs	Lab Amt	Material Amt	Outplant Amt	Var Burd Amt	Fix Burd Amt	Matl Burd	Inventoried Costs	Wip Amt
139973 ✓	12/16/2015	646.4001		1.00	1/8/2016	Released	0.00	\$786.8592	\$941.6732	\$446.2982	\$0.0000	\$1,763.7754	\$0.0000	\$0.0000	\$3,938.6060
139974 ✓	12/16/2015	646.4001		1.00	1/8/2016	Released	0.00	\$781.2696	\$948.3400	\$410.3858	\$0.0000	\$1,748.9840	\$0.0000	\$0.0000	\$3,888.9794
139975 ✓	12/16/2015	646.4001		1.00	1/8/2016	Released	0.00	\$779.1612	\$948.6670	\$410.3118	\$0.0000	\$1,744.5434	\$0.0000	\$0.0000	\$3,882.6834
139976 ✓	12/16/2015	646.4001		1.00	1/8/2016	Released	0.00	\$779.1612	\$948.6670	\$410.3118	\$0.0000	\$1,744.5434	\$0.0000	\$0.0000	\$3,882.6834
139977 ✓	12/16/2015	646.4001		1.00		Released	0.00	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000
139978 ✓	12/16/2015	646.4001		1.00	1/8/2016	Released	0.00	\$604.5691	\$878.0347	\$351.9185	\$0.0000	\$1,363.3550	\$0.0000	\$0.0000	\$3,197.8773

Grand Totals:	Lab Hrs	0.00
	Lab Amt	\$3,731.0203
	Material Amt	\$4,665.3819
	Outplant	\$2,029.2261
	Var Burd Amt	\$0.0000
	Fix Burd Amt	\$8,365.2012
	Matl Burd Amt	\$0.0000
	Inventoried Costs	\$0.0000
	Wip Amt	\$18,790.8295

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Suspected Unapproved <input type="checkbox"/>	AGAINST DEPARTMENT/PROCESS <table> <tr> <td>Skid-tube <input type="checkbox"/></td> <td>Cross tube <input type="checkbox"/></td> <td>Water Jet <input type="checkbox"/></td> <td>Engineering <input type="checkbox"/></td> </tr> <tr> <td>Machining <input type="checkbox"/></td> <td>Small Fab <input type="checkbox"/></td> <td>Prod. Eng. Coord. <input type="checkbox"/></td> <td>Quality <input type="checkbox"/></td> </tr> <tr> <td>Thermoforming <input type="checkbox"/></td> <td>Finishing <input type="checkbox"/></td> <td>Rec/Store/Packaging <input type="checkbox"/></td> <td>Other <input type="checkbox"/></td> </tr> <tr> <td>Large Fab <input type="checkbox"/></td> <td>Composite <input type="checkbox"/></td> <td>Supplier <input type="checkbox"/></td> <td></td> </tr> </table>				Skid-tube <input type="checkbox"/>	Cross tube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>	Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>	Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>	Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>	
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Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>																			

Date :	Step #:	QTY Effective :	MRB (QSI042) Approval
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Description Work Order Deviation	Disposition	Completed By
		Lead hand / Supervisor Approval Verification
		QC / QA Coordinator Approval

Root Cause <table> <tr> <td>Environment <input type="checkbox"/></td> <td>No Re-verification <input type="checkbox"/></td> <td>Pressure/Forced <input type="checkbox"/></td> </tr> <tr> <td>Design <input type="checkbox"/></td> <td>Operator <input type="checkbox"/></td> <td>Bending <input type="checkbox"/></td> </tr> <tr> <td>Doc/Data <input type="checkbox"/></td> <td>Offset/Setup <input type="checkbox"/></td> <td>Centre Not Concentric <input type="checkbox"/></td> </tr> <tr> <td>Equip/Tooling <input type="checkbox"/></td> <td>Supplier <input type="checkbox"/></td> <td>Cracks <input type="checkbox"/></td> </tr> <tr> <td>Handling/Pre <input type="checkbox"/></td> <td>Training <input type="checkbox"/></td> <td>Crimp/Kink/Ripple/Wave <input type="checkbox"/></td> </tr> <tr> <td>Material <input type="checkbox"/></td> <td>Use for Testing <input type="checkbox"/></td> <td>Cuffs <input type="checkbox"/></td> </tr> <tr> <td>Internal Transport <input type="checkbox"/></td> <td>Poor Information <input type="checkbox"/></td> <td>Crushing <input type="checkbox"/></td> </tr> <tr> <td>Tribal Knowledge <input type="checkbox"/></td> <td>Rushing <input type="checkbox"/></td> <td>Heat Treat <input type="checkbox"/></td> </tr> <tr> <td>LOA <input type="checkbox"/></td> <td>Product Improvement <input type="checkbox"/></td> <td>Wave/Twist in Tube <input type="checkbox"/></td> </tr> <tr> <td>Substation <input type="checkbox"/></td> <td>Process Improvement <input type="checkbox"/></td> <td>Marks/Chatter <input type="checkbox"/></td> </tr> <tr> <td>Past Expiry Date <input type="checkbox"/></td> <td>Manufacturing Process <input type="checkbox"/></td> <td></td> </tr> <tr> <td>Misidentified <input type="checkbox"/></td> <td>Past Due <input type="checkbox"/></td> <td></td> </tr> </table>			Environment <input type="checkbox"/>	No Re-verification <input type="checkbox"/>	Pressure/Forced <input type="checkbox"/>	Design <input type="checkbox"/>	Operator <input type="checkbox"/>	Bending <input 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<input type="checkbox"/>		Misidentified <input type="checkbox"/>	Past Due <input type="checkbox"/>		FAULT CATEGORY <table> <tr> <td>Temperature/Cure <input type="checkbox"/></td> <td>Power Loss/Surge <input type="checkbox"/></td> <td>Positioned Wrong <input type="checkbox"/></td> </tr> <tr> <td>Set-up <input type="checkbox"/></td> <td>Folio/Program <input type="checkbox"/></td> <td>Outside Dimensions <input type="checkbox"/></td> </tr> <tr> <td>BOM/Route <input type="checkbox"/></td> <td>Grain <input type="checkbox"/></td> <td>Over/Under tolerance <input type="checkbox"/></td> </tr> <tr> <td>Broken/Damage/Defect <input type="checkbox"/></td> <td>Weld <input type="checkbox"/></td> <td>Part Incorrect <input type="checkbox"/></td> </tr> <tr> <td>Inspection Incomplete/Unqualified <input type="checkbox"/></td> <td>Wrong Stock Pulled <input type="checkbox"/></td> <td>Part Lost/Missing <input type="checkbox"/></td> </tr> <tr> <td>Contamination <input type="checkbox"/></td> <td>Out of Sequence 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